



DOT-E 8748
(FIFTH REVISION)

EXPIRATION DATE: JULY 31, 2000

(FOR RENEWAL, SEE 49 CFR SECTION 107.109.)

1. GRANTEE: Battelle, Pacific Northwest Laboratories
Richland, Washington

(See Appendix A of this exemption for additional grantees)
2. PURPOSE AND LIMITATION: This exemption authorizes the transportation in commerce of Boron trifluoride, Division 2.3, in a non-DOT specification metal pressure envelope contained in a radiation detection system. This exemption provides no relief from any regulation other than as specifically stated herein.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR Sections 172.101, Column (9A) and (9B); 173.302, 175.3.
5. BASIS: This exemption is based on Battelle, Pacific Northwest Laboratories' application dated June 16, 1998, submitted in accordance with 49 CFR 107.109.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous materials description/proper shipping name	Hazard Class/ Division	Identification number	Packing Group
Boron trifluoride, compressed	Division 2.3	UN1008	N/A

7. PACKAGING AND SAFETY CONTROL MEASURES: Packaging prescribed is a radiation detection system having a non-DOT specification metal pressure envelope with welded or soldered joints, and brazed ceramic to metal insulator feed-through assemblies as described in Reuter - Stokes, Inc.'s application of November 5, 1981 and supplemental information of February 5, 1982 on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA).
- a. Each envelope must be made with a burst pressure of at least 6 times the filling pressure. The maximum filling pressure may not exceed 25 psig.
 - b. The volume of each envelope is limited by the equation $V = 1050p$; where V = Volume in cubic inches; P = Filling pressure in psig.
 - c. The package must be shipped in strong outside packaging complying with 49 CFR 173.301(k). The completed package must be able to withstand a six foot drop onto an unyielding surface without leakage of contents.
8. SPECIAL PROVISIONS:
- a. Persons who receive the packages covered by this exemption may reoffer them for transportation provided no modifications or changes are made to the packages, all terms of this exemption are complied with and a current copy of this exemption is maintained at each facility from which such reoffering occurs.
 - b. Shippers using the packaging covered by this exemption must comply with all provisions of this exemption, and all other applicable requirements contained in 49 CFR Parts 171-180.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only, and passenger aircraft.
10. MODAL REQUIREMENTS:
- a. A copy of this exemption must be carried aboard each cargo vessel, aircraft or motor vehicle used to transport packages covered by this exemption.

11. **COMPLIANCE:** Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation laws 49 U.S.C. Section 5101 et seq.:

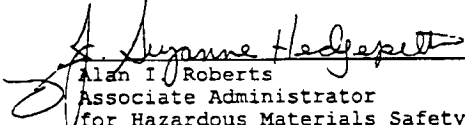
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by 49 CFR 107.601 et seq., when applicable.

Each "Hazmat employee," as defined in 49 CFR 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by 49 CFR 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. **REPORTING REQUIREMENTS:** The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (49 CFR 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incidents involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:


Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

AUG 26 1998

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

AUG 26 1993

Continuation of 5th Rev. DOT-E 8748

Page 4

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

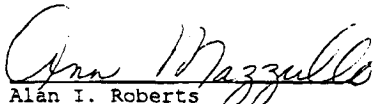
Dist: FHWA, FRA, FAA, USCG

PO: alb

APPENDIX A

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with 49 CFR 107.107 and the public proceeding thereon or 107.109, as appropriate:

Company Name City/State	Applica- tion Date	PTE	Expiration Date	Issue Date
Reuter Stokes, Inc. Twinsburg, OH	9/17/98	1	7/31/2000	OCT 22 1998
U.S. Department of Defense Washington, DC D.	11/25/96	2	11/30/98	12/23/96
Los Alamos National Laboratory, Los Alamos, NM	9/4/98	3	7/31/2000	OCT 22 1998

for 
Alan I. Roberts
Associate Administrator for
Hazardous Materials Safety